



PTO-1449 REPRODUCED		ATTORNEY DOCKET NO. 0399.2025-002	APPLICATION NO. 10/058,820
<b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  September 11, 2002 (Use several sheets if necessary)		APPLICANT Jonathan S. Bogan and Harvey F. Lodish	
		FILING DATE January 28, 2002	GROUP 1636
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
AS	AU	Asano, Tomoichiro et al., "Domains Responsible for the Differential Targeting of Glucose Transporter Isoforms," <i>J. Biol. Chem.</i> 267(27): 19636-19641 (1992).	
	AV	Baumann, Christian A. et al., "CAP defines a second signalling pathway required for insulin-stimulated glucose transport," <i>Nature</i> 407:202-207 (2000).	
	AW	Bogan, Jonathan S. and Lodish, Harvey F., "Two Compartments for Insulin-stimulated Exocytosis in 3T3-L1 Adipocytes Defined by Endogenous ACRP30 and GLUT4," <i>J. Cell Biol.</i> 146(3):609-620 (1999).	
	AX	Bogan, J. S. et al., "A Novel Assay Indicates that the GLUT4 Recycling Pathway is Not Cell-Type Specific," The American Society for Cell Biology Thirty-Eighth Annual Meeting, L65 (1998).	
	AY	Burnett, Patrick E. et al., "RAFT1 phosphorylation of the translational regulators p70 S6 kinase and 4E-BP1," <i>Proc. Natl. Acad. Sci. USA</i> 95:1432-1437 (1998).	
	AZ	Calderhead, David M. et al., "Insulin Regulation of the Two Glucose Transporters in 3T3-L1 Adipocytes," <i>J. Biol. Chem.</i> 265(23):13800-13808 (1990).	
	AR2	Charron, Maureen J. et al., "GLUT4 Gene Regulation and Manipulation," <i>J. Biol. Chem.</i> 274:3253-3256 (1999).	
	AS2	Clark, Avril E. et al., "Determination of the rates of appearance and loss of glucose transporters at the cell surface of rat adipose cells," <i>Biochem. J.</i> 278:235-241 (1991).	
	AT2	Cushman, Samuel W., and Wardzala, Lawrence J., "Potential Mechanism of Insulin Action of Glucose Transport in the isolated Rat Adipose Cell," <i>J. Biol. Chem.</i> 255(10):4758-4762 (1980).	
	AU2	Czech, Michael P and Corvera, Silvia, "Signaling Mechanisms That Regulate Glucose Transport," <i>J. Biol. Chem.</i> 274(4):1865-1868 (1999).	
	AV2	Czech, Michael P. et al., "Exofacial Epitope-tagged Glucose Transporter Chimeras Reveal COOH-Terminal Sequences Governing Cellular Localization," <i>J. Cell Biol.</i> 123(1):127-135 (1993).	
	AW2	Dobson, Stephen P. et al., "Dynamics of insulin-stimulated translocation of GLUT4 in single living cells visualised using green fluorescent protein," <i>FEBS Letters</i> 393:179-184 (1996).	
	AX2	El-Jack, Amr K. et al., "The Formation of an Insulin-responsive Vesicular Cargo Compartment Is an Early Event in 3T3-L1 Adipocyte Differentiation," <i>Molecular Bio. Of the Cell</i> 10:1581-1594 (1999).	
AS	AY2	Filippis, Anthony et al., "Possible role for gp160 in constitutive but not insulin-stimulated GLUT4 trafficking:dissociation of gp160 and GLUT4 localization," <i>Biochem. J.</i> 330:405-411 (1998).	
EXAMINER <i>Gerald A. Lipp</i>		DATE CONSIDERED 4-6-2004	RECEIVED OCT 0 8 2002

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AZ2	Fingar, Diane C. et al., "Dissociation of pp70 Ribosomal Protein S6 Kinase from Insulin-stimulated Glucose Transport in 3T3-L1 Adipocytes," J. Biol. Chem. 268(4):3005-3008 (1993).		
AR3	Frost, Susan C. and Lane, M. Daniel, "Evidence for the Involvement of Vicinal Sulfhydryl Groups in Insulin-activated Hexose Transport by 3T3-L1 Adipocytes," J. Biol. Chem. 260(5):2646-2652 (1985).		
AS3	Garza, Luis A. and Birnbaum, Morris J., "Insulin-responsive Aminopeptidase Trafficking in 3T3-L1 Adipocytes," J. Biol. Chem. 275(4):2560-2567 (2000).		
AT3	Gros, Jerome et al., "Expression of human $\beta$ 3-adrenergic receptor induces adipocyte-like features in CHO/K1 fibroblasts," J. Cell Science 112:3791-3797 (1999).		
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AW3	Hara, Kenta et al., "Amino Acid Sufficiency and mTOR Regulate p70 S6 Kinase and eIF-4E BP1 through a Common Effector Mechanism," J. Biol. Chem. 273(23):14484-14494 (1998). Additions and Corrections included.		
AX3	Hartman, Matthew E. et al., "FRAP-Dependent Serine Phosphorylation of IRS-1 Inhibits IRS-1 Tyrosine Phosphorylation," Biochemical and Biophysical Research Communications 280(3):776-781 (2001).		
AY3	Haruta, Tetsuro et al., "A Rapamycin-Sensitive Pathway Down-Regulates Insulin Signaling via Phosphorylation and Proteasomal Degradation of Insulin Receptor Substrate-1," Mol. Endo. 14(6):783-794 (2000).		
AZ3	Hashiramoto, Mitsuru and James, David E., "Characterization of Insulin-Responsive GLUT4 Storage Vesicles Isolated from 3T3-L1 Adipocytes," Molecular and Cellular Biology 20(1):416-427 (2000).		
AR4	Hausdorff, Sharon F. et al., "Identification of Wortmannin-sensitive Targets in 3T3-L1 Adipocytes," J. Biol. Chem. 274(35):24677-24684 (1999).		
AS4	Herman, Gary A. et al., "A distinct class of intracellular storage vesicles, identified by expression of the glucose transporter GLUT4," Proc. Natl. Acad. Sci. USA 91:12750-12754 (1994).		
AT4	Holman, Geoffrey D., et al., "Insulin-stimulated GLUT4 Glucose Transporter Recycling," J. Biol. Chem. 269(26):17516-17524 (1994).		
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EXAMINER <i>Donald A. Schuff</i>		DATE CONSIDERED 4-6-04	

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AV4	Holman, Geoffrey and Cushman, Samuel W., "Subcellular trafficking of GLUT4 in insulin target cells," <i>Cell &amp; Dev. Biol.</i> 7:259-268 (1996).		
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AY4	Ishii, Kazuo et al., "Possible domains responsible for intracellular targeting and insulin-dependent translocation of glucose transporter type 4," <i>Biochem. J.</i> 309:813-823 (1995).		
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AR5	Johnson, Amy O. et al., "Identification of an Insulin-responsive, Slow Endocytic Recycling Mechanism in Chinese Hamster Ovary Cells," <i>J. Biol. Chem.</i> 273(28):17968-17977 (1998).		
AS5	Kanai, Fumihiko et al., "Direct Demonstration of Insulin-induced GLUT4 Translocation to the Surface of Intact Cells by Insertion of a c-myc Epitope into an Exofacial GLUT4 Domain," <i>J. Biol. Chem.</i> 268(19):14523-14526 (1993).		
AT5	Kandror, K.V., "Insulin Regulation of Protein Traffic in Rat Adipose Cells," <i>J. Biol. Chem.</i> 274 (36):25210-25217 (1999).		
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AW5	Karnieli, Eddy et al., "Insulin-stimulated Translocation of Glucose Transport Systems in the Isolated Rat Adipose Cell," <i>J. Biol. Chem.</i> 256(10):4772-4777 (1981).		
AX5	Katagiri, Hideki et al., "Overexpression of Catalytic Subunit p110 $\alpha$ of Phosphatidylinositol 3-Kinase Increases Glucose Transport Activity with Translocation of Glucose Transporters in 3T3-L1 Adipocytes," <i>J. Biol. Chem.</i> , 271(29):16987-16990 (1996).		
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Jonathan S. Bogan and Harvey F. Lodish

FILING DATE

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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

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AR6	Lampson, Michael A. et al., "Demonstration of insulin-responsive trafficking of GLUT4 and vpTR in fibroblasts," <i>J. Cell Sci.</i> 113:4065-4076 (2000).
AS6	Lee, Wan et al., "Separation and Partial Characterization of Three Distinct Intracellular GLUT4 Compartments in Rat Adipocytes," <i>J. Biol. Chem.</i> 274(53):37755-37762 (1999).
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AU6	Livingstone, Callum et al., "Compartment ablation analysis of the insulin-responsive glucose transporter (GLUT4) in 3T3-L1 adipocytes," <i>Biochem. J.</i> 315:487-495 (1996).
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AZ6	Marsh, Brad J. et al., "Molecular Regulation of GLUT-4 Targeting in 3T3-L1 Adipocytes," <i>J. Cell Biol.</i> 130(5):1081-1091 (1995).
AR7	Martin, Sally et al., "The glucose transporter GLUT4 and the aminopeptidase vp165 colocalise in tubulo-vesicular elements in adipocytes and cardiomyocytes," <i>J. Cell Sci.</i> 110:2281-2291 (1997).
AS7	Martin, Sally et al., "Effects of insulin on intracellular GLUT4 vesicles in adipocytes:evidence for a secretory mode of regulation," <i>J. Cell Sci.</i> , 113:3427-3438 (2000).
AT7	Oatey, Paru B. et al., "GLUT4 vesicle dynamics in living 3T3 L1 adipocytes visualized with green-fluorescent protein," <i>Biochem J.</i> 327:637-642 (1997).
AU7	Parekh, Davey et al., "Mammalian TOR Controls One of Two Kinase Pathways Acting upon nPKCδ and nPKCε," <i>J. Biol. Chem.</i> 274(49):34758-34765 (1999).

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AV7	Patki, Varsha et al., "Insulin Action on GLUT4 Traffic Visualized in Single 3T3-L1 Adipocytes by Using Ultra-fast Microscopy," <i>Mol. Biol. Of the Cell</i> 12:129-141 (2001).		
AW7	Patti, Mary-Elizabeth et al., "Bidirectional Modulation of Insulin Action by Amino Acids," <i>J. Clin. Invest.</i> 101(7):1519-1529 (1998).		
AX7	Pederson, Terry M. et al., "Serine/Threonine Phosphorylation of IRS-1 Triggers Its Degradation," <i>Diabetes</i> 50:24-31 (2001).		
AY7	Pessin, Jeffrey E. et al., "Molecular Basis of Insulin-stimulated GLUT4 Vesicle Trafficking," <i>J. Biol. Chem.</i> 274(5):2593-2596 (1999).		
AZ7	Piper, Robert C. et al., "Differential sorting of two glucose transporters expressed in insulin-sensitive cells," <i>Am. J. Physiol.</i> 260(29):C570-C580 (1991).		
AR8	Quon, Michael J. et al., "Tyrosine kinase-deficient mutant human insulin receptors(Met <sup>1153</sup> - Ile) overexpressed in transfected rat adipose cells fail to mediate translocation of epitope-tagged GLUT4," <i>Proc. Natl. Acad. Sci. USA</i> 91:55887-5591 (1994).		
AS8	Ramm, Georg et al., "Insulin Recruits GLUT4 from Specialized VAMP2-carrying Vesicles as well as from the Dynamic Endosomal/Trans-Golgi Network in Rat Adipocytes," <i>Molecular Biol. Cell</i> 11:4079-4091 (2000).		
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AU8	Reed, Brent C. and Lane, M. Daniel, "Insulin receptor synthesis and turnover in differentiating 3T3-L1 preadipocytes," <i>Proc. Natl. Acad. Sci. USA</i> 77(1):285-289 (1980).		
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EXAMINER <i>Donald B. Lippert</i>		DATE CONSIDERED 4-5-04	RECEIVED OCT 08 2002

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OTHER DOCUMENTS (Indicate Author, Title, Date, Pertinent Pages, Etc.)			
AZ8	Ross, Stuart A. et al., "Trafficking Kinetics of the Insulin-Regulated Membrane Aminopeptidase in 3T3-L1 Adipocytes," <i>Biochem. Biophys. Res. Comm.</i> 239:247-251 (1997).		
AR9	Saltiel, Alan R., "New Perspectives into the Molecular Pathogenesis and Treatment of Type 2 Diabetes," <i>Cell</i> 104:517-529 (2001).		
AS9	Sato, Shinobu et al., "Use of Bismannose Photolabel to Elucidate Insulin-regulated GLUT4 Subcellular Trafficking Kinetics in Rat Adipose Cells," <i>J. Biol. Chem.</i> 268(24):17820-17829 (1993).		
AT9	Scherer, Philipp E. et al., "A Novel Serum Protein Similar to Clq, Produced Exclusively in Adipocytes," <i>J. Biol. Chem.</i> 270(45):26746-26749 (1995).		
AU9	Scherer, Philipp E. et al., "Induction of Caveolin during Adipogenesis and Association of GLUT4 with Caveolin-rich Vesicles," <i>J. Cell Biol.</i> 127(5):1233-1243 (1994).		
AV9	Schmelzle, Tobias and Hall, Michael N., "TOR, a Central Controller of Cell Growth," <i>Cell</i> 103:253-262 (2000).		
AW9	Schürmann, Annette et al., "Subcellular distribution and activity of glucose transporter isoforms GLUT1 and GLUT4 transiently expressed in COS-7 cells," <i>Biochimica et Biophysica Acta</i> 1131:245-252 (1992).		
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AR10	Shigemitsu, Kaori et al., "Regulation of Translational Effectors by Amino Acid and Mammalian Target of Rapamycin Signaling Pathways," <i>J. Biol. Chem.</i> 274(2):1058-1065 (1999).		
AS10	Simpson, Fiona et al., "GLUT4 - At the Cross Roads Between Membrane Trafficking and Signal Transduction," <i>Traffic</i> 2:2-11 (2001).		
AT10	Slot, Jan W. et al., "Translocation of the glucose transporter GLUT4 in cardiac myocytes of the rat," <i>Proc. Natl. Acad. Sci. USA</i> 88:7815-7819 (1991).		
AU10	Slot, Jan W. et al., "Immuno-localization of the Insulin Regulatable Glucose Transporter in Brown Adipose Tissue of the Rat," <i>J. Cell Biol.</i> 113(1):123-135 (1991).		
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AV10	Smith, Robert M. et al., "Immunoelectron microscopic demonstratin of insulin-stimulated translocatin of glucose transporters to the plasma membrane of isolated rat adipocytes and masking of the carboxyl-terminal epitode of intracellular GLUT4," <i>Proc. Natl. Acad. Sci. USA</i> 88:6893-6897 (1991).		
AW10	Subtil, Agathe et al., "Characterizatin of the Insulin-regulated Endocytic Recycling Mechanism in 3T3-L1 Adipocytes Using a Novel Reporter Molecule," <i>J. Biol. Chem.</i> 275(7):4787-4795 (2000).		
AX10	Sumitani, Satoru et al., "Insulin Regulation and Selective Segregatin with Glucose Transporter-4 of the Membrane Aminopeptidase vp165 in Rat Skeletal Muscle Cells," <i>Endocrinology</i> 138(3):1029-1034 (1997).		
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AZ10	Thurmond, Debbie C. et al., "Regulation of Insulin-stimulated GLUT4 Translocation by Munc18c in 3T3L1 Adipocytes," <i>J. Biol. Chem.</i> 273(50):33876-33883 (1998).		
AR11	Todaka, Mikio et al., "Roles of insulin, guanosine 5'-[γ-thio]triphosphate and phorbol 12-myristate 13-acetate in signalling pathways of GLUT4 translocation," <i>Biochem J.</i> 315:875-882 (1996).		
AS11	Vannucci, Susan J. et al., "Cell surface accessibility of GLUT4 glucose transporters in insulin-stimulated rat adipose cells," <i>Biochem. J.</i> 288:325-330 (1992).		
AT11	Verhey, Kristen J. et al., "Identification of the Carboxy Terminus As Important for the Isoform-specific Subcellular Targeting of Glucose Transporter Proteins," <i>J. Cell Biol.</i> 123(1):137-147 (1992).		
AU11	Wei, Maria L. et al., "GLUT4 and Transferrin Receptor Are Differentially Sorted Along the Endocytic Pathway in CHO Cells," <i>J. Cell Biol.</i> 140(3):565-575 (1998).		
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SUPPLEMENTAL INFORMATION DISCLOSURE CITATION IN AN APPLICATION				APPLICANT Jonathan S. Bogan	
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U.S. PATENT DOCUMENTS					
EXA M- INER INI- TIAL		DOCUMENT NUMBER	ISSUE DATE / PUBLICATION DATE		NAME
AB		20020052012-A1	02-May-2002		Bogan, et al.
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AZ11	Bartilson, Magdalena et al., "Differential Fluorescence Induction Reveals Streptococcus Pneumoniae Loci Regulated by Competence Stimulatory Peptide," Mol. Microbio. 39(1):126-135 (2001).				
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AS12	Bogan, Jonathan S. et al., "Insulin-Responsive Compartments Containing GLUT4 in 3T3-L1 and CHO Cells: Regulation by Amino Acid Concentrations," Mol. and Cell. Biol. 21(14):4785-4806 (2001).				
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APPLICANT

Jonathan S. Bogan and Harvey F. Lodish

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Donald R. Hoffmann

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4-6-2004